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DIVISION 02 - SITE WORK

SECTION 02230

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SECTION 02230

CLEARING AND GRUBBING

PART 1 GENERAL

1.1 DEFINITIONS

1.1.1 Clearing

Clearing shall consist of the felling, trimming, and cutting of trees into sections and the satisfactory disposal of the trees and other vegetation designated for removal, including down timber, snags, brush, and rubbish occurring in the areas to be cleared.

1.1.2 Grubbing

Grubbing shall consist of the removal and disposal of all trees, stumps, roots, logs, arundo scrub, and other objectionable vegetative matter in the borrow site, all required cuts and fills, foundation areas, and all excavation areas. In grubbing out stumps and roots, all roots or other timber larger than 3 inches in diameter shall be removed to 18 inches below the depth of the required excavation or existing ground level, whichever is lower. Trees and stumps shall be pulled, not cut off.

1.1.3 ENVIRONMENTAL PROTECTION

All work and Contractor operations shall comply with the requirements of Sections 01354 ENVIRONMENTAL PROTECTION and 02300 EARTHWORK.

1.1.4 BURNING

The use of burning at the project site for the disposal of refuse and debris will not be permitted.

PART 2 PRODUCTS (Not Applicable)

PART 3 EXECUTION

3.1 GENERAL

Except as otherwise specified, and/or indicated, areas to be cleared will be limited to actual excavation areas, and areas on which fills and/or structures are to be placed. Removal of trees, shrubs, turf, and other vegetation outside of these areas will not be allowed.

3.2 EXISTING STRUCTURES and OBSTRUCTIONS

The Contractor shall clear and grub the project site to receive fill, and excavation areas, and remove and dispose of all existing structures, surface debris and obstructions for project construction, except those structures which are identified to be protected in place as shown on the

drawings. Obstructions which are designed or specified to be removed but which are not designated or specified to be removed by others shall be removed by the Contractor. Except as otherwise specified, obstructions designated to be removed by others will be removed in sufficient time to preclude interference with the Contractor's operations.

3.3 CLEARING

Clearing or removal of any tree is subject to approval by the Contracting Officer. Trees, stumps, roots, brush, and other vegetation in areas to be cleared shall be cut off flush with or below the original ground surface, except such trees and vegetation as may be indicated or directed to be left standing. Trees designated to be left standing within the cleared areas shall be trimmed of dead branches 1-1/2 inches or more in diameter and shall be trimmed of all branches the heights indicated or directed. Limbs and branches to be trimmed shall be neatly cut close to the bole of the tree or main branches. Cuts more than 1-1/2 inches in diameter shall be painted with an approved tree-wound paint. Trees and vegetation to be left standing shall be protected from damage incident to clearing, grubbing, and construction operations by the erection of barriers or by such other means as the circumstances require. Clearing shall also include the removal and disposal of structures that obtrude, encroach upon, or otherwise obstruct the work.

3.4 GRUBBING

Material to be grubbed, together with logs and other organic or metallic debris not suitable for foundation purposes, shall be removed to a depth of not less than 18 inches below the original surface level of the ground in areas indicated to be grubbed and in areas indicated as construction areas under this contract, such as areas for buildings, and areas to be paved. Depressions made by grubbing shall be filled with suitable material and compacted to make the surface conform with the original adjacent surface of the ground.

3.5 TREE REMOVAL

Where indicated or directed, trees and stumps that are designated as trees shall be removed from areas outside those areas designated for clearing and grubbing. This work shall include the felling of such trees and the removal of their stumps and roots as specified in paragraph GRUBBING. Trees shall be disposed of as specified in paragraph DISPOSAL OF MATERIALS.

3.6 DISPOSAL OF MATERIALS

Cleared, grubbed and removed material shall be removed from project limits for proper disposal in compliance with federal, state and local requirements.

All material removed, except material specified and/or indicated to be salvaged, is designated as scrap, and shall be removed from the site.

Logs, stumps, roots, brush, rotten wood, and other refuse from the clearing and grubbing operations shall be disposed of outside the limits of Government-controlled land at the Contractor's responsibility, except when otherwise directed in writing. Such directive will state the conditions covering the disposal of such products and will also state the areas in which they may be placed.

3.7 DISPOSAL OF HAZARDOUS AND TOXIC WASTE

Any materials encountered in work areas which are suspected of having characteristics of hazardous and/or toxic waste shall be handled in a manner conforming to the requirements of Section 01354 ENVIRONMENTAL PROTECTION.

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